

Attorney Docket No.: RU-0224
Inventors: Fennell and Haggbloom
Serial No.: 10/828,781
Filing Date: April 21, 2004
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This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A method for remediating a material contaminated with a halogenated aromatic compound comprising introducing a mixed culture of bacteria comprising Dehalococcoides ethenogenes strain 195 and another Dehalococcoides ethenogenes strain into a material contaminated with a halogenated aromatic compound so that said ~~strain~~ mixed culture of bacteria removes at least one halogen group from the aromatic compound thereby remediating the material, and wherein said Dehalococcoides ethenogenes strain 195 is present in the culture at a concentration percentage of from 30 to 80 percent of the total culture.

Claim 2 (canceled).

Claim 3 (original): The method of claim 1, wherein the remediation is carried out *in situ* or *ex situ*.

Claim 4 (original): The method of claim 1, further comprising adding a simple halogenated compound into the contaminated material.

Claim 5 (currently amended): A method for enhancing a bioremediation process of a contaminated material comprising introducing into a material contaminated with a halogenated

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aromatic compound, wherein said material contains Dehalococcoides ethenogenes strain 195 present in a mixed culture with another Dehalococcoides ethogenes strain, wherein said Dehalococcoides ethenogenes strain 195 is present in the culture at a concentration percentage of from 30 to 80 percent of the total culture ~~a dehalogenating organism~~, an effective amount of a simple halogenated compound so that the growth of the organism is stimulated or supported thereby enhancing the bioremediation process of the contaminated material.

Claim 6 (canceled).

Claim 7 (original): The method of claim 5, further comprising adding an electron donor.

Claim 8 (canceled).